

FIG. 1

Minimal & Optimal Growth Temperatures for Selected Strains of *Bacillus coagulans*

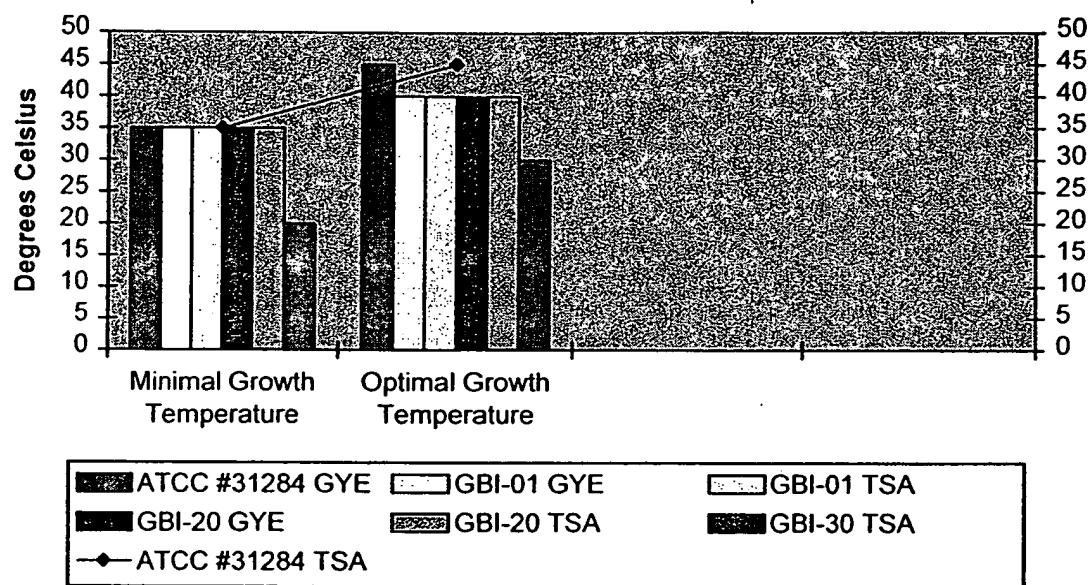
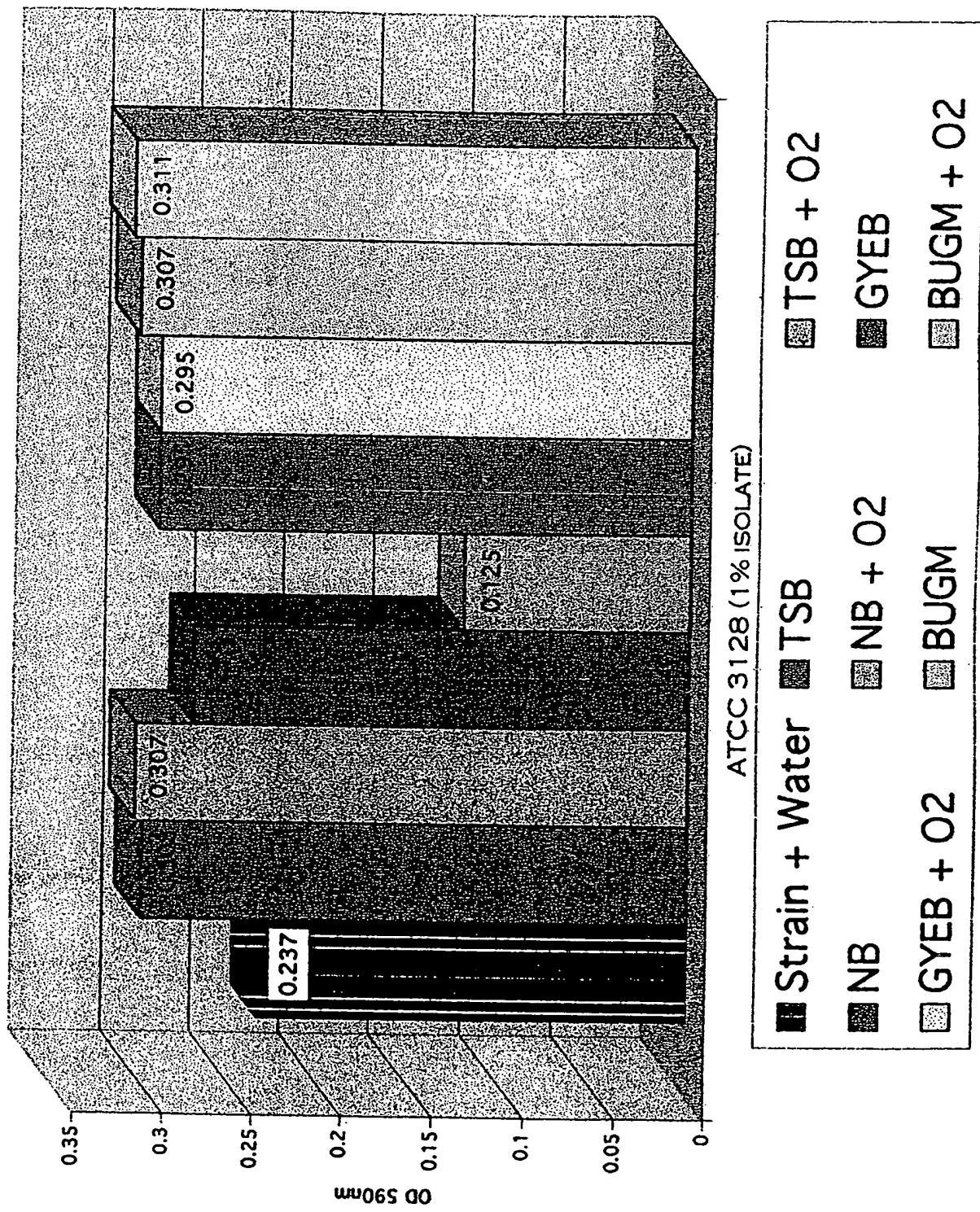


FIG. 2



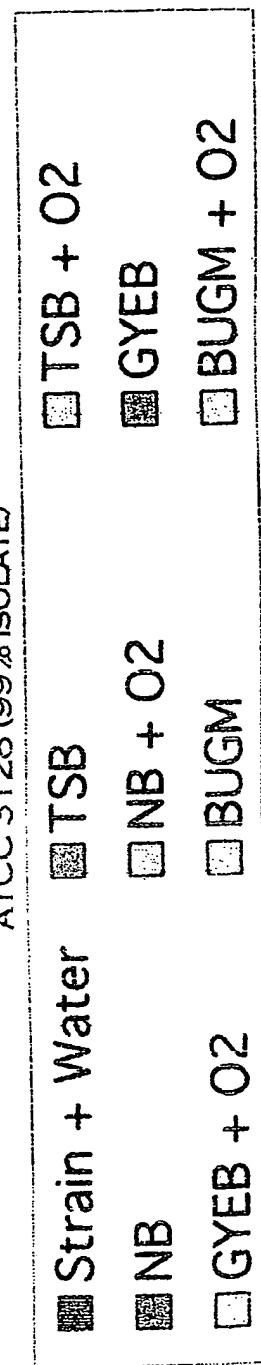
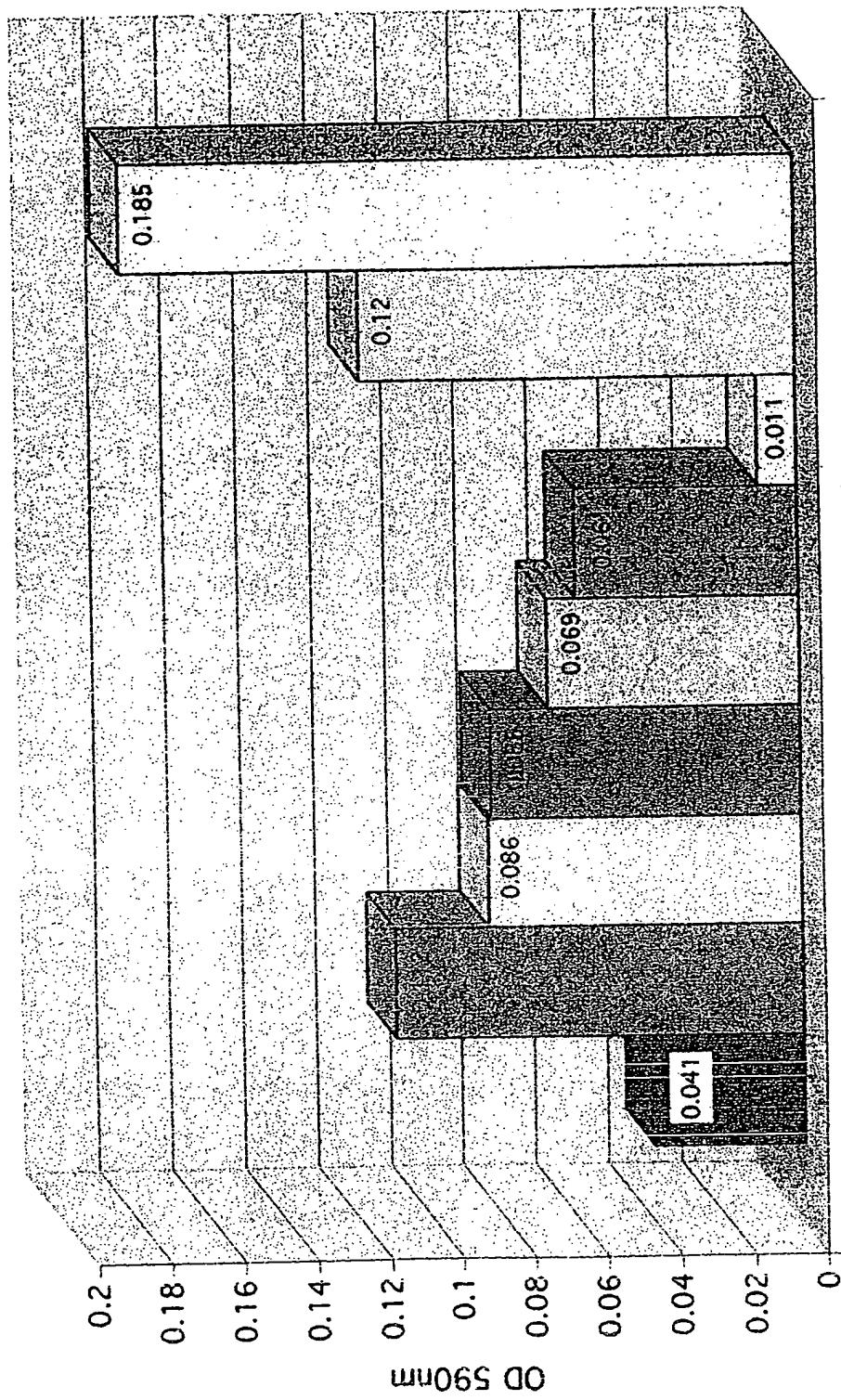


FIG. 3

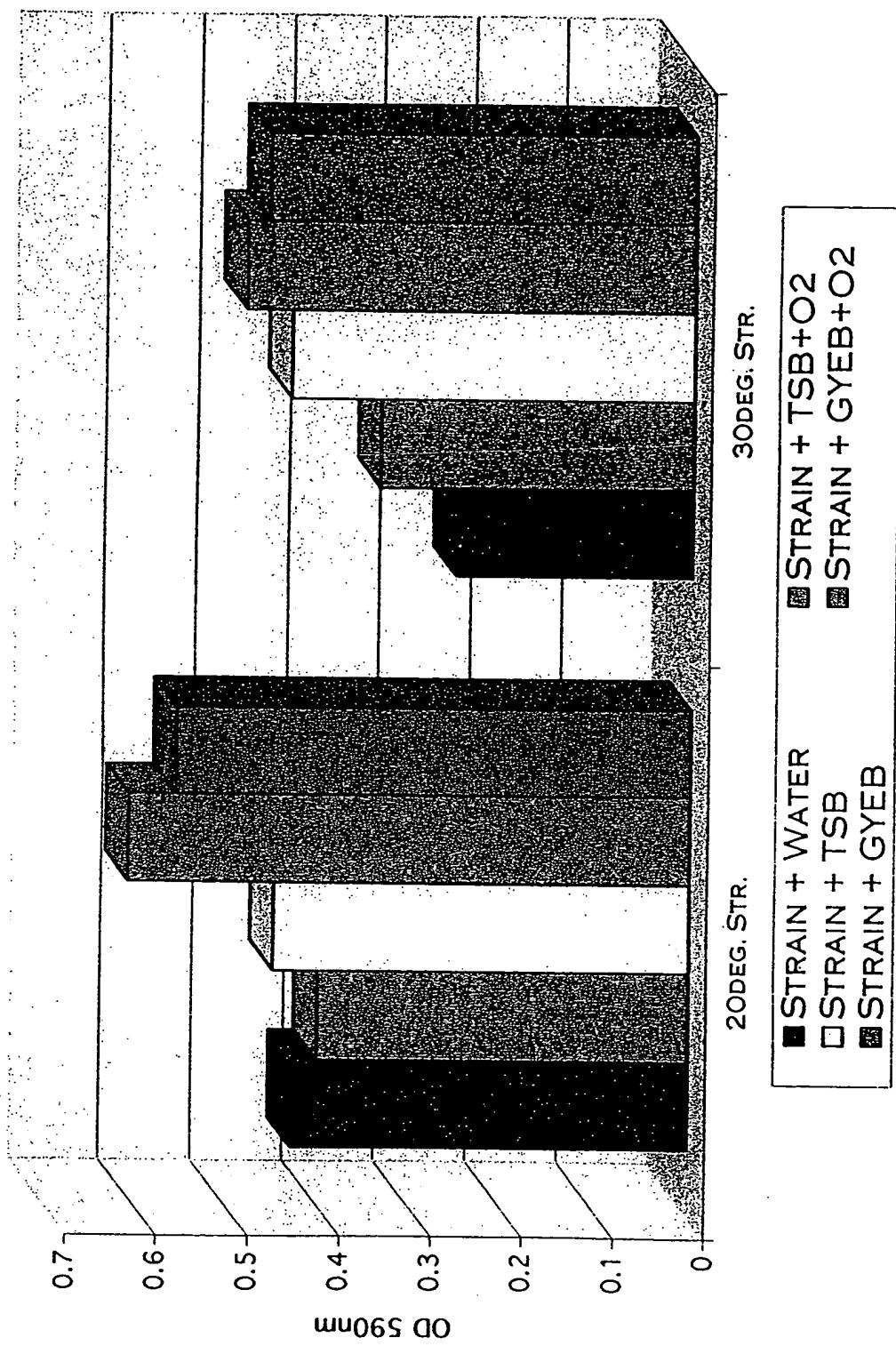


FIG. 4

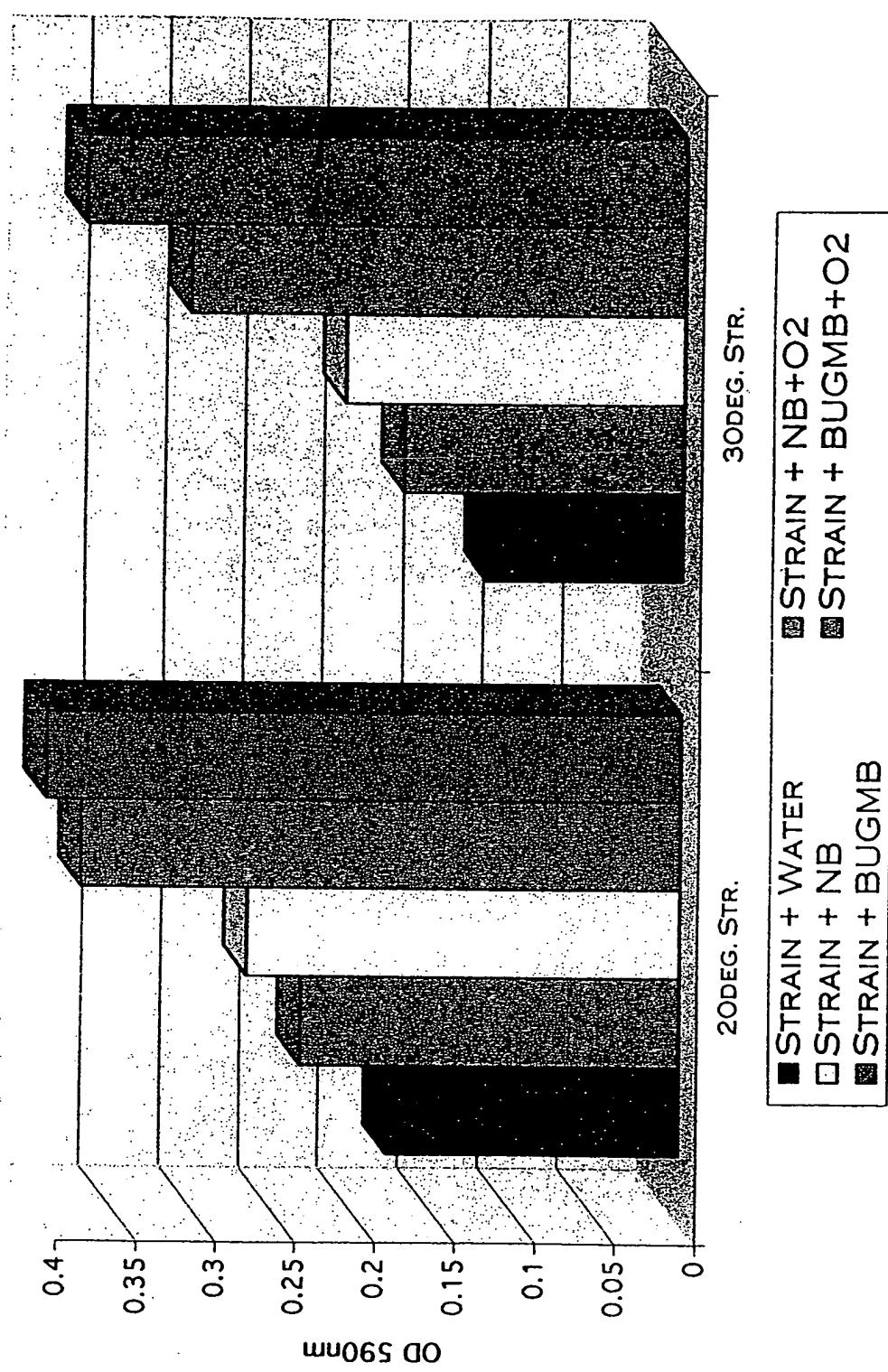
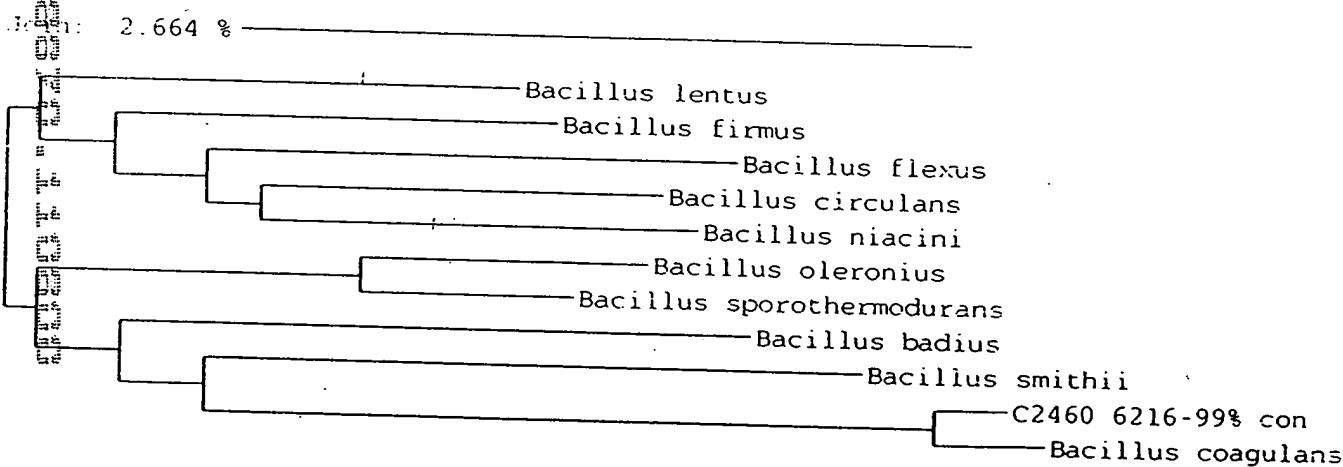


FIG. 5

FIG. 6

Alignment: 1549 C2460 6216-99% con
0.65 % 1549 *Bacillus coagulans*
4.84 % 1548 *Bacillus oleronius*
5.36 % 1550 *Bacillus smithii*
5.62 % 1548 *Bacillus sporothermodurans*
5.65 % 1551 *Bacillus badius*
5.79 % 1547 *Bacillus firmus*
5.85 % 1547 *Bacillus latus*
5.90 % 1543 *Bacillus circulans*
5.95 % 1545 *Bacillus niacini*
6.30 % 1548 *Bacillus flexus*

Neighbor Joining Tree



Concise Alignment

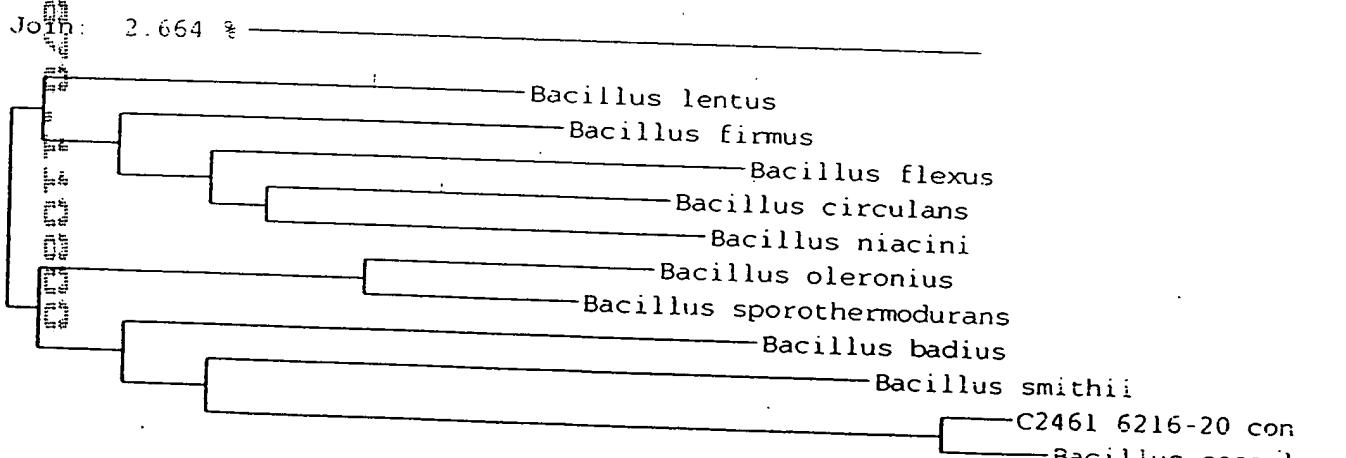
1
111222222241
347011256784
902967240204

C2460 6216-99% con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)
Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

FIG. 7

Alignment: 1549 C2461 6216-20 con
0.65 % 1549 *Bacillus coagulans*
4.84 % 1548 *Bacillus oleronius*
5.36 % 1550 *Bacillus smithii*
5.62 % 1548 *Bacillus sporothermodurans*
5.65 % 1551 *Bacillus badius*
5.79 % 1547 *Bacillus firmus*
5.85 % 1547 *Bacillus latus*
5.90 % 1543 *Bacillus circulans*
5.95 % 1545 *Bacillus niacini*
6.30 % 1548 *Bacillus flexus*

Neighbor Joining Tree



Concise Alignment

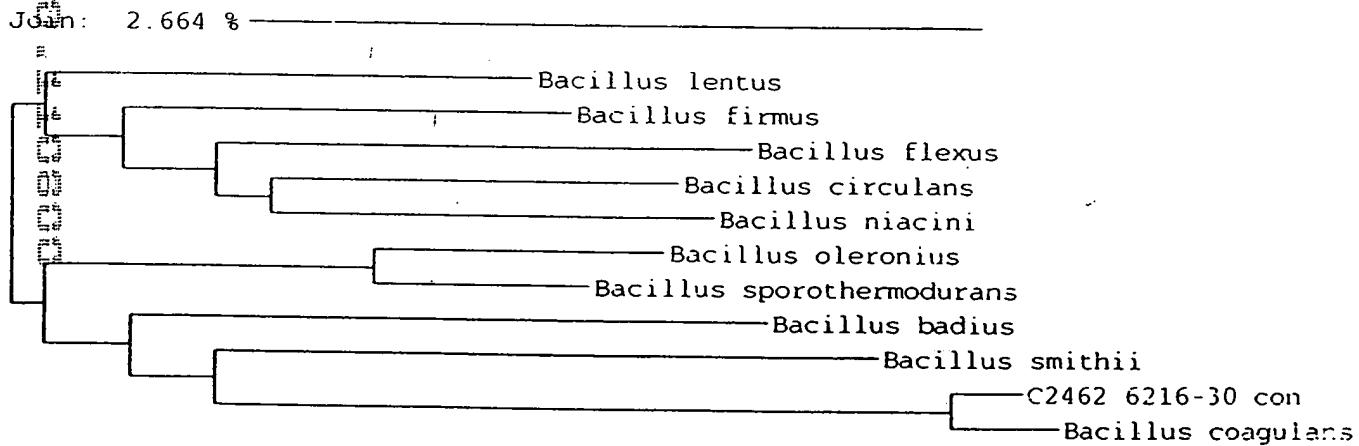
1
111222222241
347011256784
902967240204

C2461 6216-20 con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)
Bacillus coagulans CTRGGGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

FIG. 8

Alignment: 1549 C2462 6216-30 con
0.65 % 1549 *Bacillus coagulans*
4.84 % 1548 *Bacillus oleronius*
5.36 % 1550 *Bacillus smithii*
5.62 % 1548 *Bacillus sporothermodurans*
5.65 % 1551 *Bacillus badius*
5.79 % 1547 *Bacillus firmus*
5.85 % 1547 *Bacillus latus*
5.90 % 1543 *Bacillus circulans*
5.95 % 1545 *Bacillus niacini*
6.30 % 1548 *Bacillus flexus*

Neighbor Joining Tree



Concise Alignment

1
111222222241
347011256784
902967240204

C2462 6216-30 con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)
Bacillus coagulans CTRGGCCACCCCC (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

SCANNED, # 6

Plate #1 Bacillus 99% ATCC Isolate

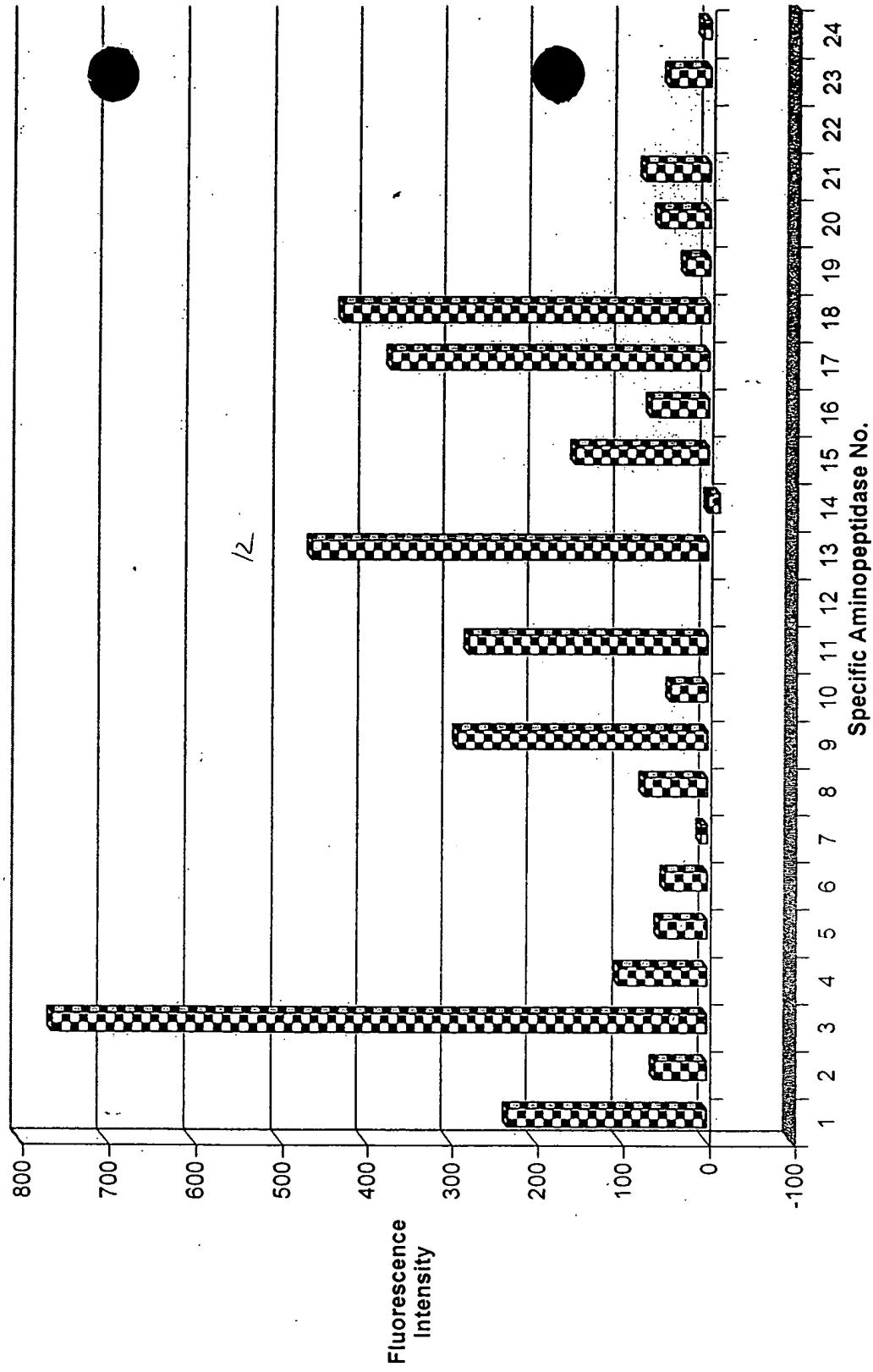


FIG. 9

SCANNED, # 6

Plate #2 *Bacillus* 1% ATCC Isolate

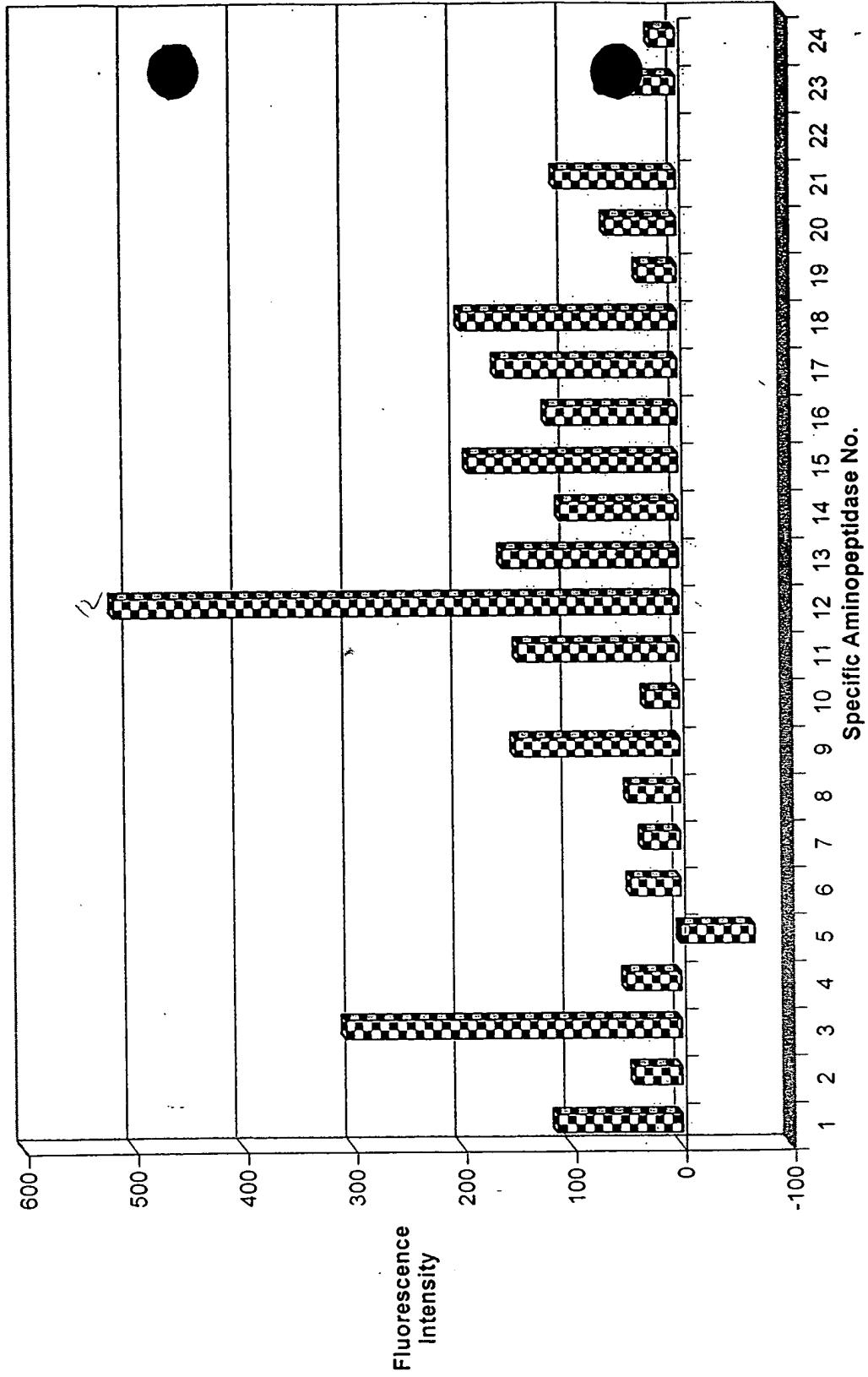


FIG. 10

SCANNED, # 6

Plate #3 *Bacillus* 30 degree Isolate

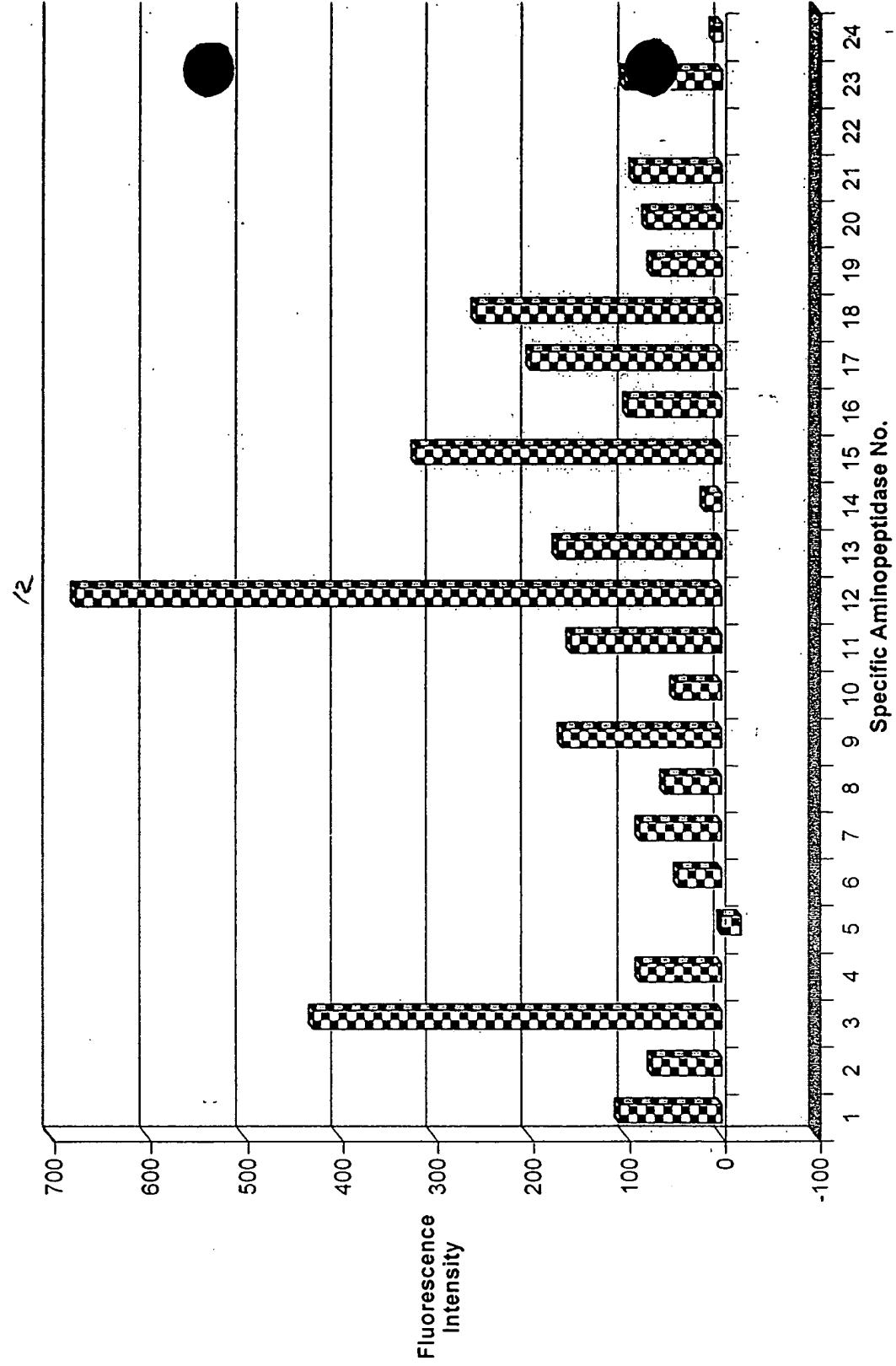


FIG. 11

SCANNED, # 6'

Plate #4 Bacillus 20 degree Isolate

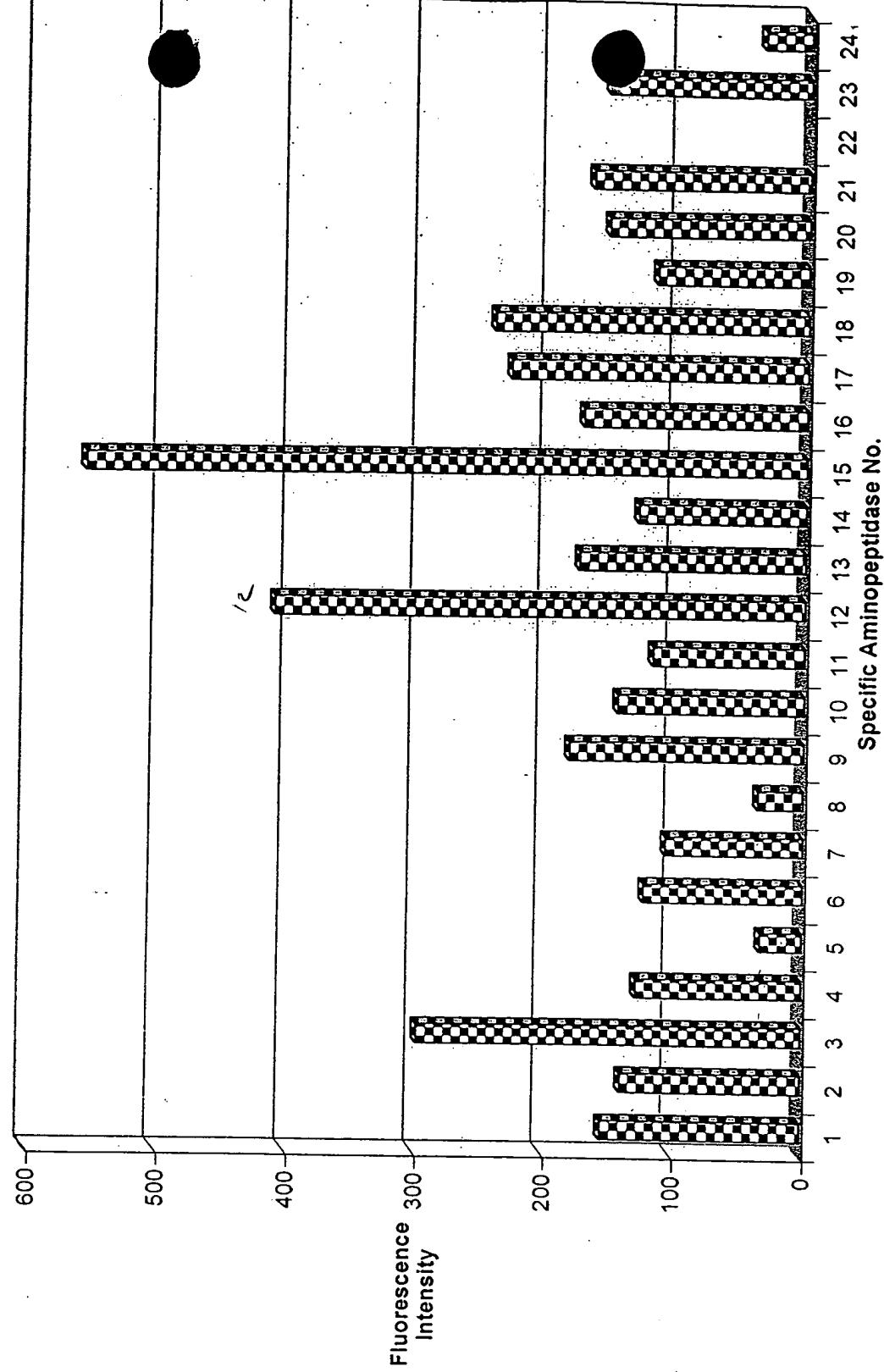


FIG. 12